Welcome!

CIRA
Connecting Models and Observations
Cooperative Institute for
Research in the Atmosphere

Colorado
State
University

Warren H White <whwhite@ucdavis.edu>

RE: Request for agenda items for the St. Marks, FL Steering Committee meeting October 16th & 17th

Scott, I won't be coming this year, and ***hereby give you my proxy to call out any and all BS.***

Update on IMPROVE Data, RHR Metrics,

October 17, 2018

Scott Copeland, CIRA/USDA Forest Service

IMPROVE Steering Committee Chair

scott.copeland@colostate.edu

-2017 Data delivered last Friday.

-RHR2 metrics, Impairment metrics available in FED soon.

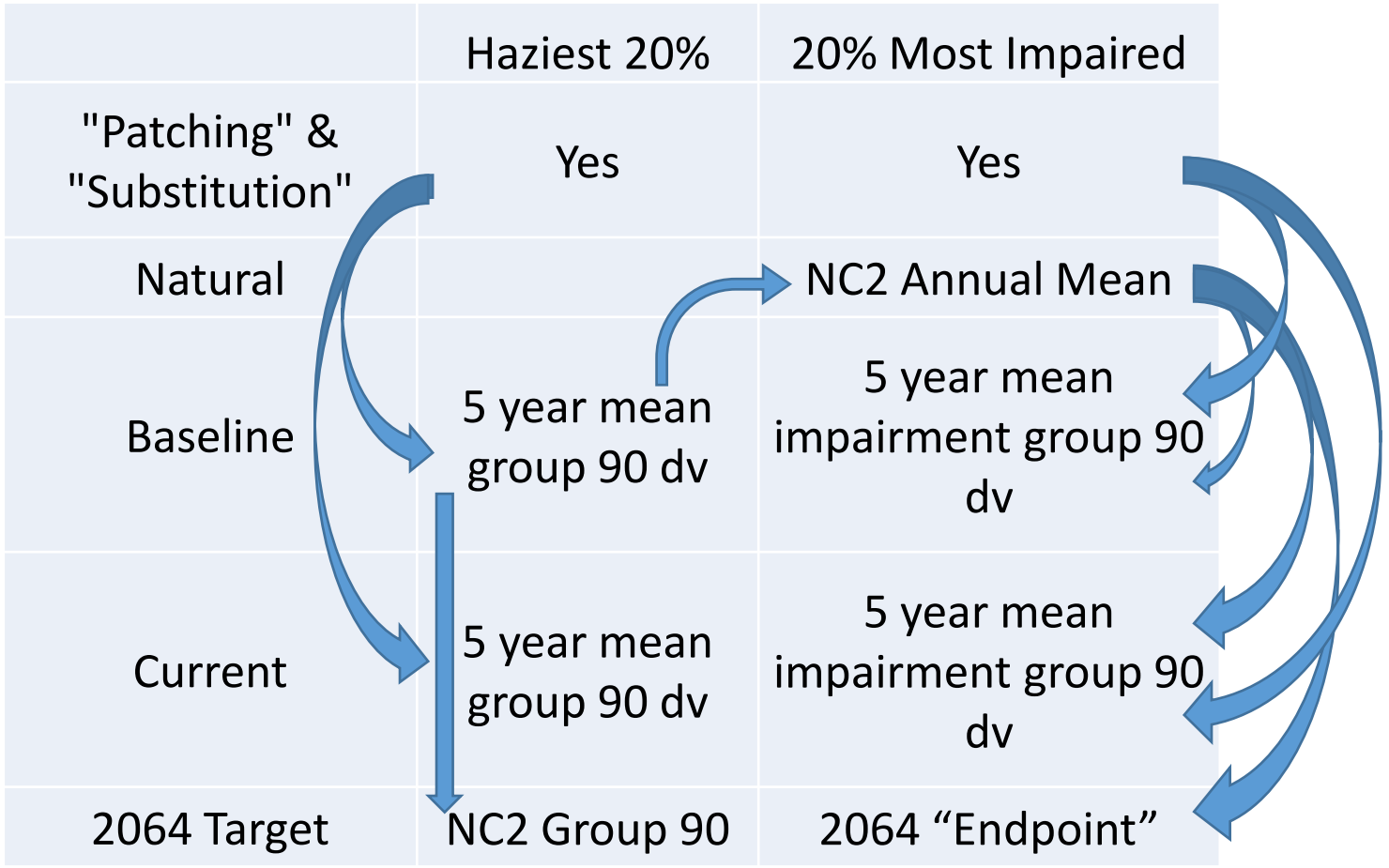
-Proposing to consider RTI PC flagged (“possible contamination”) values as valid for RHR metrics.

-Draft version including extra patching days.

-Impairment technique 1 pagers.

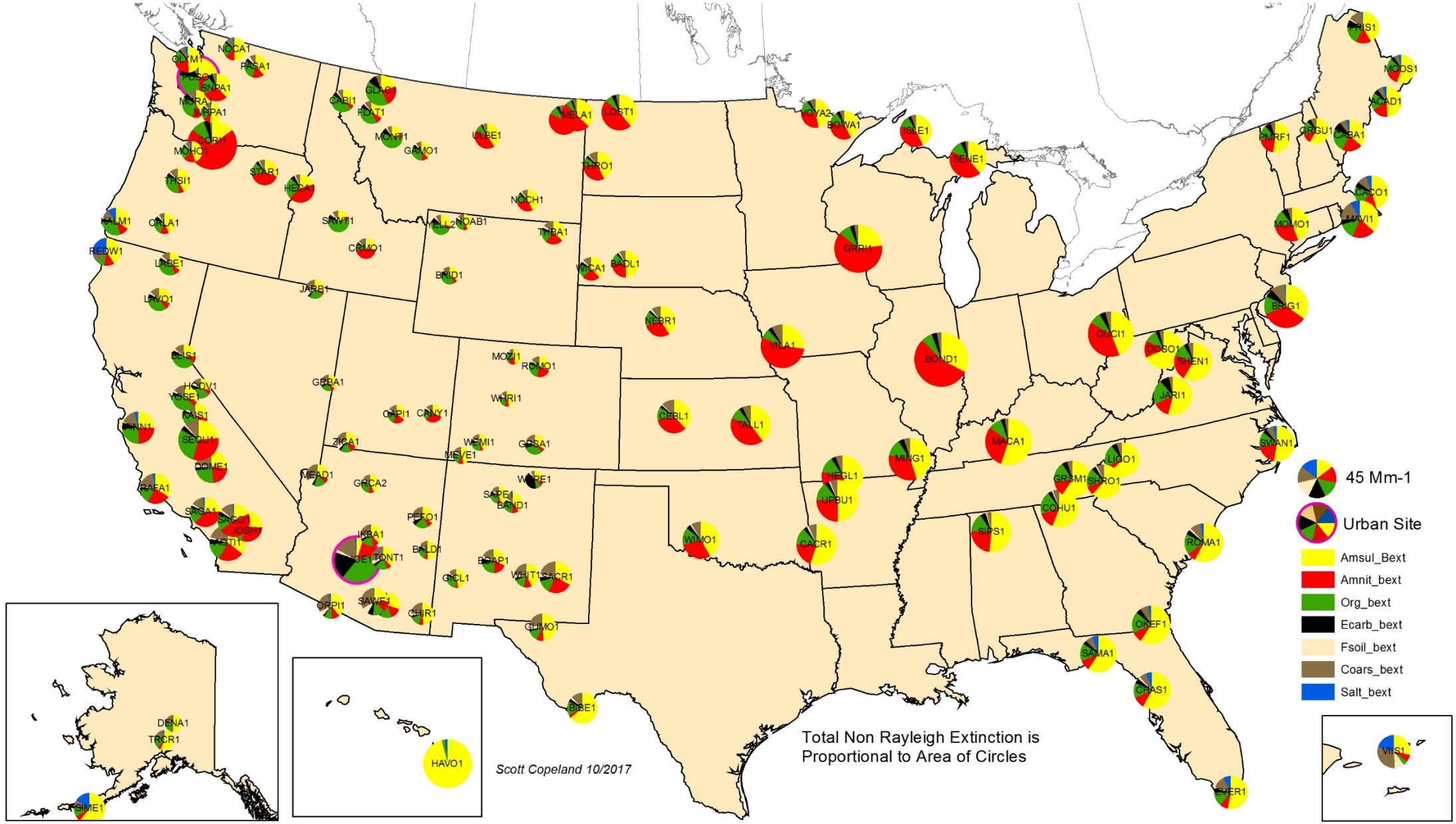
”Freezing” Data…

The RHR metric data sets are interconnected.



IMPROVE Data - 2016 Second IMPROVE Algorithm

DRAFT Non Rayleigh Mean of 20% Most Impaired



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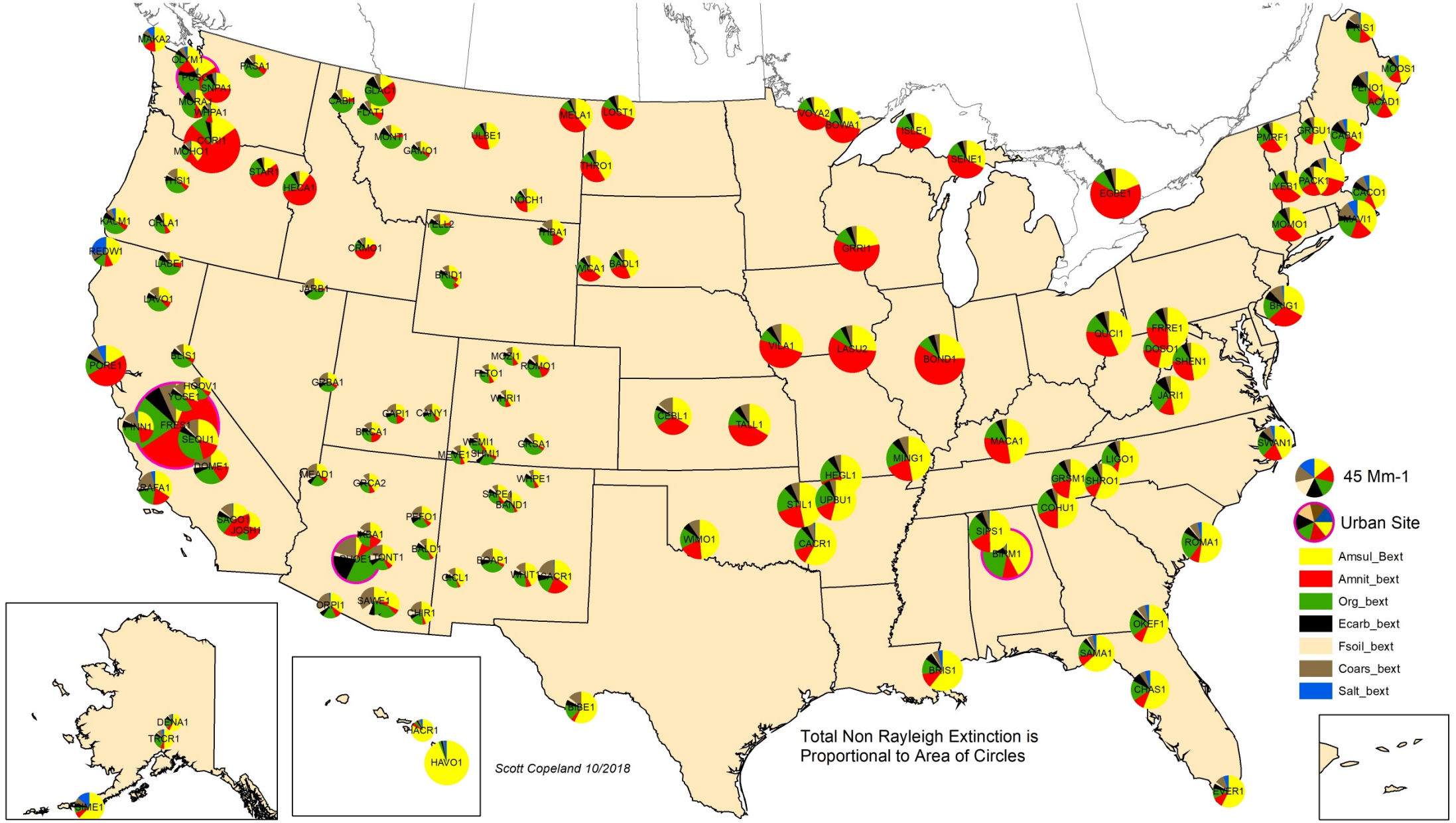

A few over 2400 sample days would be recovered by allowing this.
59 by allowing 4 patches (all but 3 at HAVO1,2 at HACR1, 1 at SIME1)
1293 by allowing 3 patches (usually soil, sea salt, coarse)
1265 by allowing 2

We currently use 6373 with a single patch

Site years which would be valid with extra patched days.

site	year	total_per_year	complete_days_year	max_miss_days	good_year	complete_days_year	complete_year	max_miss_days	good_year	extra patched days
CACR1	2001	122	91	6	0	92	1	6	1	1
CHAS1	2005	122	78	35	0	112	1	3	1	34
GAMO1	2007	121	90	19	0	116	1	2	1	26
HAVO1	1992	105	42	61	0	98	1	4	1	56
HECA1	2003	121	88	10	0	96	1	10	1	8
KPBO1	2017	122	65	55	0	117	1	1	1	52
NEBR1	2008	122	17	100	0	111	1	5	1	94
QUCI1	2010	122	101	12	0	116	1	3	1	15
SIPS1	2000	110	82	6	0	86	1	5	1	4
SULA1	2008	122	71	47	0	116	1	2	1	45
SWAN1	2005	122	89	25	0	111	1	2	1	22
WHPE1	2010	122	91	5	0	94	1	5	1	3